NEW HAMPSHIRE WATER SUPPLY AND POLLUTION CONTROL COMMISSION LAKE TROPHIC DATA

MORPHOMETRIC:								
LAKE Pratt pond	LAKE AREA (HA)12.42							
TOWNNew Ipswich	MAXIMUM DEPTH (M)							
COUNTY Hillsborough								
RIVER BASIN Merrimack	_ ` ` `							
LATITUDE 42° 44' N	MUD SURFACE AREA (HA)							
LONGITUDE 71° 54' W	RELATIVE DEPTH							
ELEVATION (FT) 1235	SHORE CONFIGURATION							
SHORE LENGTH (M) 1800	AREAL WATER LOAD (M/YR)							
WATERSHED AREA (HA)								
% WATERSHED PONDED	PHOSPHORUS RETENTION COEFF.							
BIOLOGICAL: DATE	29 JAN 1985							
DOM. PHYTOPLANKTON (% total) 1	Dinobryon (65%)							
2								
NUMBER OF ALGAL GENERA	6							
SPECIES DIVERSITY	1.83							
CHLOROPHYLL <u>a</u> (µg/L)								
DOM. ZOOPLANKTON (% total) 1	Calanoid copepod (85%)							
. 2								
ROTIFERS/LITER	4							
MICROCRUSTACEA/LITER	126							
TOTAL ZOOPLANK. CNTS (cells/L)	130							
VASCULAR PLANT ABUNDANCE								
DOMINANT VASCULAR PLANTS 1								
. 2								
3								
SECCHI DISK TRANSPARENCY (M)								
BOTTOM DISS. OXYGEN (mg/L)	11.9							
- SEDIMENT: % ORGANIC MATTER								
LAKE TYPE: An artificial pond	l.							
SUMMER THERMAL STRATIFICATION:	YES NO WEAK							
IF YES, VOLUME OF HYPOLIMNION	(m ³) THERMOCLINE DEPTH (m)							

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CHEMICAL: (mg/L unless	indicated	ot	her	wise)	LAI	KE:	ŧ	ratt Pond	
	\(\begin{array}{c} \begin{array}{c} \begin{array} \begin{array}{c} \begin{array}{c} \begin{array}{c}	WINTER				SUMMER			
					-	SOMMEN			
DATE	29	29 JAN 1985						·	
DEPTH (M)	1.0								
pH (UNITS)	5.2								
ALKALINITY (I. P.)	0.3								
ALKALINITY (F.E.P.)	1.9								·
NITRITE+NITRATE NITROGEN									
TOTAL KJELDAHL NITROGEN									
TOTAL PHOSPHORUS	0.005								
SPEC. CONDUCT. (µMhos/cm)	31.9								
APPARENT COLOR (UNITS)	0								
TRUE COLOR (440 nm)(UNITS)	6								
MAGNESIUM									
CALCIUM									
SODIUM									
POTASSIUM									
CHLORIDE									
TN : TP									
INORG-N : INORG-P									
[Mg+Ca] : [Na+K]									
CALCITE SATURATION INDEX									
* = NOT DEFENSIBLE NR = NO RESULT									
TROPHIC CLASSIFICATION:		D.0	•		PLA! ABUI		CHL a	TOTAL PTS.	TROPHIC CLASS.
CLASSIFICATION	POINTS:								PRIVATE

COMMENTS:

- 1. This is a private, man-made pond, with no public access. It was not sampled during the summer because of no boat access, but a winter sample was collected.
- 2. A plant survey was conducted in early fall, 1977, and in early summer, 1978, in response to a complaint. At that time, plants were common to abundant. Pipewort was abundant, with masses of the filamentous green alga Mougeotia clinging to its stems. Yellow water lily and water milfoil were also common.